

**CRF Errors Edited by the STIC Systems  
Branch**

Serial Number: 10/501,964

CRF Edit Date: 8/2/04  
Edited by: ML

\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:

**ENTERED**

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

☒ Deleted: ☒ Invalid beginning/end-of-file text ; \_\_\_ page numbers

\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_ Other:



PCT

## RAW SEQUENCE LISTING

DATE: 08/02/2004

PATENT APPLICATION: US/10/501,964

TIME: 15:59:21

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\08022004\J501964.raw

```

4 <110> APPLICANT: LEE, SANG KYOU
6 <120> TITLE OF INVENTION: BIOMOLECULE TRANSDUCTION MOTIF SIM-2-BTM AND THE
7   USE THEREOF
9 <130> FILE REFERENCE: PN-22867-PCT
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/501,964
C--> 11 <141> CURRENT FILING DATE: 2004-07-19
11 <150> PRIOR APPLICATION NUMBER: KR-10-2002-0003184
12 <151> PRIOR FILING DATE: 2002-01-19
14 <160> NUMBER OF SEQ ID NOS: 18
16 <170> SOFTWARE: KopatentIn 1.71
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 9
20 <212> TYPE: PRT
21 <213> ORGANISM: Artificial Sequence
23 <220> FEATURE:
24 <223> OTHER INFORMATION: Biomolecule transduction motif
27 <400> SEQUENCE: 1
28 Ala Lys Ala Ala Arg Gln Ala Ala Arg
29   1           5
32 <210> SEQ ID NO: 2
33 <211> LENGTH: 66
34 <212> TYPE: DNA
35 <213> ORGANISM: Artificial Sequence
37 <220> FEATURE:
38 <223> OTHER INFORMATION: 5' primer for Sim-2
41 <220> FEATURE:
42 <221> NAME/KEY: misc_feature
43 <222> LOCATION: (4)..(9)
44 <223> OTHER INFORMATION: BamHI site
47 <400> SEQUENCE: 2
48 cgcggatccg ccaaagccgc ccgccaggcc gcccggtcta gagatcccg cgttttacaa   60
50 cgtgac                                     66
53 <210> SEQ ID NO: 3
54 <211> LENGTH: 26
55 <212> TYPE: DNA
56 <213> ORGANISM: Artificial Sequence
58 <220> FEATURE:
59 <223> OTHER INFORMATION: 3' primer for beta-gal
62 <220> FEATURE:
63 <221> NAME/KEY: misc_feature
64 <222> LOCATION: (3)..(8)
65 <223> OTHER INFORMATION: BglII site
68 <400> SEQUENCE: 3

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69 gaagatcttt atttttgaca ccagac 26
72 <210> SEQ ID NO: 4
73 <211> LENGTH: 75
74 <212> TYPE: DNA
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: 5' primer for tat
81 <220> FEATURE:
82 <221> NAME/KEY: misc_feature
83 <222> LOCATION: (4)..(9)
84 <223> OTHER INFORMATION: BamHI site
87 <400> SEQUENCE: 4
88 cgcggatcct atggaaggaa gaagaagcgg agacaaagac gacgatctag agatcccgtc 60
90 gttttacaac gtgac 75
93 <210> SEQ ID NO: 5
94 <211> LENGTH: 18
95 <212> TYPE: DNA
96 <213> ORGANISM: Artificial Sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: 3' primer for eGFP
102 <220> FEATURE:
103 <221> NAME/KEY: misc_feature
104 <222> LOCATION: (4)..(8)
105 <223> OTHER INFORMATION: BglII site
108 <400> SEQUENCE: 5
109 gaagatcttt tacttgta 18
112 <210> SEQ ID NO: 6
113 <211> LENGTH: 18
114 <212> TYPE: DNA
115 <213> ORGANISM: Artificial Sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: 5' primer for B7.1
121 <220> FEATURE:
122 <221> NAME/KEY: misc_feature
123 <222> LOCATION: (4)..(9)
124 <223> OTHER INFORMATION: BamHI site
127 <400> SEQUENCE: 6
128 cgcggatccg gccacaca 18
131 <210> SEQ ID NO: 7
132 <211> LENGTH: 18
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial Sequence
136 <220> FEATURE:
137 <223> OTHER INFORMATION: 3' primer for B7.1
140 <220> FEATURE:
141 <221> NAME/KEY: misc_feature
142 <222> LOCATION: (3)..(8)
143 <223> OTHER INFORMATION: BglII site
146 <400> SEQUENCE: 7

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147 gaagatcttt acagggcg                                     18
150 <210> SEQ ID NO: 8
151 <211> LENGTH: 21
152 <212> TYPE: DNA
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: 5' primer for Gal4
159 <220> FEATURE:
160 <221> NAME/KEY: misc_feature
161 <222> LOCATION: (4)..(9)
162 <223> OTHER INFORMATION: XbaI site
165 <400> SEQUENCE: 8
166 cgctctagaa agctactgtc t                                21
169 <210> SEQ ID NO: 9
170 <211> LENGTH: 21
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial Sequence
174 <220> FEATURE:
175 <223> OTHER INFORMATION: 3' primer for Gal4
178 <220> FEATURE:
179 <221> NAME/KEY: misc_feature
180 <222> LOCATION: (4)..(9)
181 <223> OTHER INFORMATION: HindIII site
184 <400> SEQUENCE: 9
185 cccaagcttc ggcgatacag t                                21
188 <210> SEQ ID NO: 10
189 <211> LENGTH: 119
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Gal4 binding sequence
197 <400> SEQUENCE: 10
198 ctcgaggaca gtactccgct cggaggacag tactccgatc cgtcgactct agagggtata 60
200 taatgcgccca gctcgaattc atcagcttgg cgagattttc aggagctaag gaagctaaa 119
203 <210> SEQ ID NO: 11
204 <211> LENGTH: 45
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <223> OTHER INFORMATION: N terminal of BamhI-Sim-2-B7
212 <220> FEATURE:
213 <221> NAME/KEY: misc_feature
214 <222> LOCATION: (4)..(9)
215 <223> OTHER INFORMATION: BamHI site
218 <400> SEQUENCE: 11
219 cgcggatccg ccaaagccgc ccgccaggcc gcccgggggc acaca      45
222 <210> SEQ ID NO: 12
223 <211> LENGTH: 18
224 <212> TYPE: DNA

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225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: C terminal of BgIII and B7
231 <220> FEATURE:
232 <221> NAME/KEY: misc_feature
233 <222> LOCATION: (3)..(8)
234 <223> OTHER INFORMATION: BglII site
237 <400> SEQUENCE: 12
238 gaagatcttt acagggcg 18
241 <210> SEQ ID NO: 13
242 <211> LENGTH: 81
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: 5' primer for Sim2-A1A2
250 <220> FEATURE:
251 <221> NAME/KEY: misc_feature
252 <222> LOCATION: (4)..(9)
253 <223> OTHER INFORMATION: BamHI site
256 <400> SEQUENCE: 13
257 cgcggtccg ccaaagccgc ccgccaggcc gcccgggggt ctagattcct gagagtgaag 60
259 ttcagcagga gcgcagagcc c 81
262 <210> SEQ ID NO: 14
263 <211> LENGTH: 72
264 <212> TYPE: DNA
265 <213> ORGANISM: Artificial Sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: 3' primer for Sim-2-A1A2
271 <220> FEATURE:
272 <221> NAME/KEY: misc_feature
273 <222> LOCATION: (4)..(9)
274 <223> OTHER INFORMATION: BglII site
277 <400> SEQUENCE: 14
278 cccaagcttc ttgtcatagt cgtccttgta gtcgcggccg ccgcgagggg gcagggcctg 60
280 catgtgaagg gc 72
283 <210> SEQ ID NO: 15
284 <211> LENGTH: 69
285 <212> TYPE: DNA
286 <213> ORGANISM: Artificial Sequence
288 <220> FEATURE:
289 <223> OTHER INFORMATION: 5' primer for Sim-2-CTLA4
292 <220> FEATURE:
293 <221> NAME/KEY: misc_feature
294 <222> LOCATION: (4)..(9)
295 <223> OTHER INFORMATION: BamHI site
298 <400> SEQUENCE: 15
299 cgcggtccg ccaaagccgc ccgccaggcc gcccgggggt ctagaaaaat gctaaagaaa 60
301 agaagccct 69
304 <210> SEQ ID NO: 16

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## RAW SEQUENCE LISTING

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305 <211> LENGTH: 72
306 <212> TYPE: DNA
307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: 3' primer for Sim-2-CTLA4
313 <220> FEATURE:
314 <221> NAME/KEY: misc_feature
315 <222> LOCATION: (4)..(9)
316 <223> OTHER INFORMATION: BglIII site
319 <400> SEQUENCE: 16
320 cccaagcttc ttgtcatagt cgtccttgta gtcgcggccg ccattgatgg gaataaaata 60
322 aggtgaaat tg 72
325 <210> SEQ ID NO: 17
326 <211> LENGTH: 67
327 <212> TYPE: DNA
328 <213> ORGANISM: Artificial Sequence
330 <220> FEATURE:
331 <223> OTHER INFORMATION: 5' primer for Sim-2-insulin
334 <220> FEATURE:
335 <221> NAME/KEY: misc_feature
336 <222> LOCATION: (4)..(9)
337 <223> OTHER INFORMATION: BamHI site
340 <400> SEQUENCE: 17
341 cgcggatccg ccaaagccgc ccgccaggcc gcccgggggc agggttccag ggtggctgga 60
343 cccagg 67
346 <210> SEQ ID NO: 18
347 <211> LENGTH: 77
348 <212> TYPE: DNA
349 <213> ORGANISM: Artificial Sequence
351 <220> FEATURE:
352 <223> OTHER INFORMATION: 3' primer for Sim-2-insulin
355 <220> FEATURE:
356 <221> NAME/KEY: misc_feature
357 <222> LOCATION: (4)..(9)
358 <223> OTHER INFORMATION: BglIII site
361 <400> SEQUENCE: 18
362 cccaagcttc ttgtcatagt cgtccttgta gtcgcggccg cgctggttca agggctttat 60
364 tccatctctc tcggtgc 77

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**VERIFICATION SUMMARY**

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Input Set : A:\pto.kd.txt

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date